MAY 2 6 1909 CO

SEQUENCE LISTING

GENERAL INFORMATION:

- (i) APPLICANT: HU, JING-SHAN OLSEN, HENRIK S. ROSEN, CRAIG A.
- (ii) TITLE OF INVENTION: HUMAN VASCULAR ENDOTHELIAL GROWTH FACTOR 3
- (iii) NUMBER OF SEQUENCES: 8
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
 - (B) STREET: 1100 NEW YORK AVE, NW
 - (C) CITY: WASHINGTON
 - (D) STATE: DC
 - (E) COUNTRY: USA
 - (F) ZIP: 20005
 - (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 09/033,662
 - (B) FILING DATE: 03-MAR-1998
 - (C) CLASSIFICATION:
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 08/469,641
 - (B) FILING DATE: 06-JUN-1995
- (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: STEFFE, ERIC K.
 - (B) REGISTRATION NUMBER: 36,688
 - (C) REFERENCE/DOCKET NUMBER: 1488.1040001
 - (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: 202-371-2600
 - (B) TELEFAX: 202-371-2540
- (2) INFORMATION FOR SEQ ID NO:1:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 666 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: both
 - (D) TOPOLOGY: both
 - (ii) MOLECULE TYPE: cDNA
 - (ix) FEATURE:
 - (A) NAME/KEY: CDS
 - (B) LOCATION: 1..663

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

					CCC Pro 10					48
•					GAT Asp					96
					ACT Thr				1	44
					GAG Glu				1	192
					GTG Val				2	240
					CCC Pro 90				2	288
					CCG Pro				3	336
					GAA Glu				3	384
					GCT Ala				4	132
					TCT Ser				4	180
					AGC Ser 170				5	528
					GAC Asp				5	576
					TGT Cys				6	524
					AAG Lys		TGA		e	666

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 221 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
- Met Arg Arg Cys Arg Ile Ser Gly Arg Pro Pro Ala Pro Pro Gly Val 1 5 10 15
- Pro Ala Gln Ala Pro Val Ser Gln Pro Asp Ala Pro Gly His Gln Arg
 20 25 30
- Lys Val Val Ser Trp Ile Asp Val Tyr Thr Arg Ala Thr Cys Gln Pro 35 40 45
- Arg Glu Val Val Pro Leu Thr Val Glu Leu Met Gly Thr Val Ala 50 55 60
- Lys Gln Leu Val Pro Ser Cys Val Thr Val Gln Arg Cys Gly Gly Cys
 65 70 75 80
- Cys Pro Asp Asp Gly Leu Glu Cys Val Pro Thr Gly Gln His Gln Val 85 90 95
- Arg Met Gln Ile Leu Met Ile Arg Tyr Pro Ser Ser Gln Leu Gly Glu 100 105 110
- Met Ser Leu Glu Glu His Ser Gln Cys Glu Cys Arg Pro Lys Lys 115 120 125
- Asp Ser Ala Val Lys Pro Asp Arg Ala Ala Thr Pro His His Arg Pro 130 135 140
- Gln Pro Arg Ser Val Pro Gly Trp Asp Ser Ala Pro Gly Ala Pro Ser 145 150 155 160
- Pro Ala Asp Ile Thr Gln Ser His Ser Ser Pro Arg Pro Leu Cys Pro 165 170 175
- Arg Cys Thr Gln His His Gln Cys Pro Asp Pro Arg Thr Cys Arg Cys 180 185 190
- Arg Cys Arg Arg Arg Ser Phe Leu Arg Cys Gln Gly Arg Gly Leu Glu 195 200 205
- Leu Asn Pro Asp Thr Cys Arg Cys Arg Lys Leu Arg Arg 210 215 220
- (2) INFORMATION FOR SEQ ID NO:3:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 29 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: both
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA



	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:3:								
GCAT	rggat	CC CAGCCTGATG CCCCTGGCC	29							
(2)	INFO	RMATION FOR SEQ ID NO:4:								
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: both (D) TOPOLOGY: linear								
	(ii)	MOLECULE TYPE: cDNA								
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:4:								
GCAT	TCTA	GA CCCTGCTGAG TCTGAAAAGC	30							
(2)	INFO	INFORMATION FOR SEQ ID NO:5:								
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: both (D) TOPOLOGY: linear								
	(ii)	MOLECULE TYPE: cDNA								
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:5:								
GACT		GC ACCAGAGGAA AGTGGTGTC	29							
(2) INFORMATION FOR SEQ ID NO:6:										
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: both (D) TOPOLOGY: linear								
	(ii)	MOLECULE TYPE: cDNA								
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:6:								
GACT		CT CCTTCGCAGC TTCCGGCAC	29							
(2) INFORMATION FOR SEQ ID NO:7:										
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: single								

- (D) TOPOLOGY: not relevant
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

(2) INFORMATION FOR SEQ ID NO:8:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 215 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: not relevant
- (ii) MOLECULE TYPE: peptide



(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

Met Asn Phe Leu Leu Ser Trp Val His Trp Ser Leu Ala Leu Leu Leu 1 5 10 15

Tyr Leu His His Ala Lys Trp Ser Gln Ala Ala Pro Met Ala Glu Gly 20 25 30

Gly Gl
y Gln Asn His His Glu Val Val Lys Phe Met Asp Val Tyr Gl
n 35 40 45

Arg Ser Tyr Cys His Pro Ile Glu Thr Leu Val Asp Ile Phe Gln Glu 50 55 60

Tyr Pro Asp Glu Ile Glu Tyr Ile Phe Lys Pro Ser Cys Val Pro Leu 65 70 75 80

Met Arg Cys Gly Gly Cys Cys Asn Asp Glu Gly Leu Glu Cys Val Pro 85 90 95

Thr Glu Glu Ser Asn Ile Thr Met Gln Ile Met Arg Ile Lys Pro His 100 105 110

Gln Gly Gln His Ile Gly Glu Met Ser Phe Leu Gln His Asn Lys Cys 115 120 125

Glu Cys Arg Pro Lys Lys Asp Arg Ala Arg Gln Glu Lys Lys Ser Val 130 140

Arg Gly Lys Gly Lys Gly Gln Lys Arg Lys Arg Lys Ser Arg Tyr 145 150 155 160

Lys Ser Trp Ser Val Pro Cys Gly Pro Cys Ser Glu Arg Arg Lys His

Leu Phe Val Gln Asp Pro Gln Thr Cys Lys Cys Ser Cys Lys Asn Thr 180 185 190

Asp Ser Arg Cys Lys Ala Arg Gln Leu Glu Leu Asn Glu Arg Thr Cys 195 200 205

Arg Cys Asp Lys Pro Arg Arg 210 215

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